WHAT IS CLAIMED IS:

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1. A computer system to invoke multiple executions of an analytical task in response to receiving a request for analytical information from a front-end software application, wherein the computer system is programmed to:

use the request to identify a first input value;

invoke a first execution of the analytical task by providing the first input value to a first analytical engine;

identify a second input value; and

invoke a second execution of the analytical task by providing both the first and second input values to a second analytical engine.

- 2. The computer system of claim 1, wherein the first analytical engine and the second analytical engine are located externally from the computer system.
 - 3. The computer system of claim 1, wherein the first analytical engine and the second analytical engine are the same analytical engine.
- 20 4. The computer system of claim 1, wherein the request includes the first input value.
 - 5. The computer system of claim 1, wherein the request includes the second input value.
 - 6. The computer system of claim 1, wherein the computer system is programmed to obtain the first input value by invoking an execution of an additional analytical task.
 - 7. The computer system of claim 1, wherein the computer system is programmed to obtain the second input value by invoking an execution of an additional analytical task.

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- 8. The computer system of claim 1, wherein the computer system is programmed to obtain the second input value from an additional request that is received from the front-end software application.
- 5 9. The computer system of claim 1, wherein the analytical task is a prediction task, and wherein the first and second analytical engines are prediction engines.
 - 10. The computer system of claim 9, wherein the computer system is programmed to use the request to identify the first and second prediction engines.
 - 11. The computer system of claim 10, wherein the computer system is programmed to: invoke the first execution of the prediction task on the first prediction engine by providing the first input value as input into a first data mining model; and

invoke the second execution of the prediction task on the second prediction engine by providing both the first and second input values as input into a second data mining model.

- 12. The computer system of claim 11, wherein the first and second data mining models are a common data mining model, and wherein the first and second data mining models are used by the first and second prediction engines during task execution.
- 13. The computer system of claim 1, wherein the computer system is programmed to automatically send output information generated from the first execution of the analytical task back to the front-end software application.
- 25 14. The computer system of claim 1, wherein the computer system is programmed to automatically send output information generated from the second execution of the analytical task back to the front-end software application.
- 15. A computer-implemented method for invoking multiple executions of an analytical task in response to receiving a request for analytical information from a front-end software application, the method comprising:

using the request to identify a first input value;

invoking a first execution of the analytical task by providing the first input value to a first analytical engine;

identifying a second input value; and

invoking a second execution of the analytical task by providing both the first and second input values to a second analytical engine.

16. A computer-implemented method on a front-end software application, the method comprising:

sending a request to execute an analytical task;

receiving output information generated from a first execution of the analytical task in response to the request;

if the output information does not satisfy a predetermined criterion, waiting to receive additional output information generated from a second execution of the analytical task in response to the request.

- 17. The computer-implemented method of claim 16, wherein the method comprises receiving output information generated from the second execution of the analytical task.
- 20 18. The computer-implemented method of claim 16, wherein sending the request to execute an analytical task includes:

sending a first input value used for execution of the analytical task; and sending a second input value used for execution of the analytical task.

19. The computer-implemented method of claim 18, wherein:

sending the first input value used for execution of the analytical task includes sending the first input value at a first point in time; and

sending the second input value used for execution of the analytical task includes sending the second input value at a second point in time.

20. The computer-implemented method of claim 18, wherein:

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sending the first input value used for execution of the analytical task includes sending the first input value used for the first execution of the analytical task; and

sending the second input value used for execution of the analytical task includes sending the second input value used for the second execution of the analytical task.

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21. The computer-implemented method of claim 16, wherein the method comprises processing the output information generated from the first execution of the analytical task if the output information does satisfy a predetermined criterion.

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22. The computer-implemented method of claim 16, wherein the predetermined criterion includes a quality-rating criterion.

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- 23. The computer-implemented method of claim 16, wherein the predetermined criterion includes a confidence-rating criterion.
- 24. The computer-implemented method of claim 16, wherein the analytical task in a prediction task.
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therein for performing a method, the method comprising:

using the request to identify a first input value;

invoking a first execution of the analytical task by providing the first input value to a first analytical engine;

A computer-readable medium having computer-executable instructions contained

identifying a second input value; and

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invoking a second execution of the analytical task by providing both the first and second input values to a second analytical engine.

26. A computer-readable medium having computer-executable instructions contained therein for performing a method, the method comprising:

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sending a request to execute an analytical task;

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receiving output information generated from a first execution of the analytical task in response to the request;

if the output information does not satisfy a predetermined criterion, waiting to receive additional output information generated from a second execution of the analytical task in response to the request.